



M4A79T Deluxe The Ideal Multidimensional Performance Platform

- 8+2 Phase Power Design
- EPU
- TurboV
- Precision Tweaker 2
- Express Gate
- AMD 140W CPU Support

*Exclusively designed for latest **AM3 CPU** with **DDR3** support

For best compatibility, please refer to **CPU Support List.



CPU, Chipset and Graphics features

AMD® Phenom™ II/ Athlon™ X4/ Athlon™ X3/Athlon™ X2 processors (socket AM3)

AMD® Phenom™ II/ Athlon™ X4/ Athlon™ X3/Athlon™ X2 processors (socket AM3) This motherboard supports AMD® Socket AM3 multi-core processors with unique L3 cache and delivers better overclocking capabilities with less power consumption. It features dual-channel DDR3 1333 memory support and accelerates data transfer rate up to 5200MT/s via HyperTransport™ 3.0 based system bus. This motherboard also supports AMD® CPUs in the new 45nm manufacturing process.



AMD 790FX Chipset

AMD 790FX Chipset is designed to support up to 5200MT/s HyperTransport™ 3.0 (HT 3.0) interface speed and quad PCI Express™ 2.0 x16 graphics. It is optimized with AMD latest AM3 and multi-core CPUs to provide excellent system performance and overclocking capabilities.



PCIe 2.0 support

This motherboard supports the latest PCIe 2.0 devices for double speed and bandwidth which enhances system performance.



Native DDR3 1600(O.C.) Support

This motherboard supports native DDR3 1600(O.C.) that provides faster data transfer rate and more bandwidth to increase memory computing efficiency, enhancing system performance in 3D graphics and other memory demanding applications.

* DDR3 1600(O.C.) is supported by AM3 CPUs only. Refer to www.asus.com for the supported CPU models.



ATI CrossFireX™ Technology

ATI's CrossFireX™ boosts image quality along with rendering speed, eliminating the need to scale down screen resolution to get high quality images. CrossFireX™ allows higher anti-aliasing, anisotropic filtering, shading, and texture settings. Adjust your display configurations, experiment with the advanced 3D settings, and check the effects with a real-time 3D-rendered previews within ATI Catalyst™ Control Center.



ASUS Green Design

EPU

The ASUS EPU (Energy Processing Unit) provides total system power management by detecting current PC loadings and intelligently moderating power in real-time. It automatically provides the most appropriate power usage for the CPU, VGA card, hard drives, and CPU/chassis fans- helping save power and money!

*ASUS EPU is supported by AM2+/AM3 CPU only.



AI Nap

With AI Nap, the system can continue running at minimum power and noise when you are temporarily away. To wake the system and return to the OS environment, simply click the mouse or press a key.



Express Gate

Express Gate

Taking only 5 seconds to bootup, Express Gate is the one-stop gateway to instant fun! It's a unique motherboard built-in OS. You can utilize the most popular Instant Messengers (IM) like MSN, Skype, Google talk, QQ, and Yahoo! Messenger to keep in touch with friends, or quickly check on the weather and e-mails just before leaving your house. What's more, the user-friendly picture manager lets you view your pictures without entering Windows at anytime!

*The actual boot time is subject to hardware configurations and product models.



ASUS Quiet Thermal Solution

Stack Cool 2



ASUS Stack Cool 2 is a fan-less and zero-noise cooling solution that lowers the temperature of critical heat generating

components. The motherboard uses a special design on the printed circuit board (PCB) to dissipate heat these critical components generate.



Aesthetic Heat- pipe

Lowers Temperatures by up to 10°C

The aesthetic heat- pipe design effectively directs the heat generated by the chipsets to the heatsink near the back I/O ports - where it can be carried away by existing airflows from the CPU or a bundled optional fan. This innovative and groundbreaking fanless heat pipe design effectively lowers temperatures by up to 10°C without having lifetime problems that a normal chipset fan has. Furthermore, it provides options for users to install side-flow fans or a passive cooler. This Heat Pipe design is the most reliable fanless thermal solution to date.



ASUS Q-Fan 2

ASUS Q-Fan2 technology intelligently adjusts both CPU fan and chassis fan speeds according to system loading to ensure quiet, cool and efficient operation.



ASUS Crystal Sound

Noise Filter

This feature detects repetitive and stationary noises (non-voice signals) like computer fans, air conditioners, and other background noises then eliminates it in the incoming audio stream while recording.



Industry Standard

SATA on the Go

The motherboard supports the next-generation hard drives based on the Serial ATA (SATA) 3Gb/s storage specification, delivering enhanced scalability and doubling the bus bandwidth for high-speed data retrieval and saves. The external SATA port



High Definition Audio

Enjoy high-end sound system on your PC!

The onboard 8-channel HD audio (High Definition Audio, previously codenamed Azalia) CODEC enables high-quality 192KHz/24-bit audio output, jack-sensing feature, retasking



located at the back I/O provides smart setup and hot-plug functions. Easily backup photos, videos and other entertainment contents on external devices.

IEEE 1394a interface

IEEE 1394a interface provides high speed digital interface for audio/video appliances such as digital television, digital video camcorders, storage peripherals & other PC portable devices.



RoHS

GreenASUS

The motherboard and its packaging comply with the European Union's Restriction on the use of Hazardous Substances (RoHS). This is in line with the ASUS vision of creating environment-friendly and recyclable products and packaging to safeguard consumers' health while minimizing the impact on the environment.



functions and multi-streaming technology that simultaneously sends different audio streams to different destinations. You can now talk to your partners on the headphone while playing a multi-channel network games. All of these are done on one computer.

S/PDIF-out on Back I/O Port

This motherboard provides convenient connectivity to external home theater audio systems via coaxial and optical S/PDIF-out (SONY-PHILIPS Digital Interface) jacks. It allows to transfer digital audio without converting to analog format and keeps the best signal quality.



Specifications

CPU	AMD Socket AM3 ;Phenom™II/Athlon™II/Sempron™ 100 Series Processors AMD 140W CPU Support AMD Cool 'n' Quiet™ Technology Support 45nm CPU
Chipset	AMD 790FX/SB750
System Bus	Up to 5200 MT/s HyperTransport™ 3.0
Memory	4 x DIMM, Max. 16 GB, DDR3 1600(O.C.)/1333/1066 ECC,Non-ECC,Un-buffered Memory Dual Channel memory architecture *Due to OS limitation, when installing total memory of 4GB capacity or more, Windows® 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended. **Refer to www.asus.com or user manual for the Memory QVL (Qualified Vendors Lists)
Expansion Slots	4 x PCIe 2.0 x16 support ATI CrossFireX™ technology (@ dual x16, triple x16 / x8 / x8, or quad x8 link) 2 x PCI 2.2
Storage	SB750 Chipset 1 xUltraDMA 133/100/66 for up to 2 PATA devices 5 xSATA 3 Gb/s ports Support RAID 0,1,5,10,JBOD 1 x eSATA 3Gb/s ports (SATA on-the-go)* *Refer to user manual for the HDD Bay QVL(Qualified Vendors Lidts)
LAN	Realtek® 8112 Gigabit LAN controller featuring AI NET 2
Audio	Realtek® 1200 8 -Channel High Definition Audio CODEC DTS Surround Sensation UltraPC - Supports Jack-Detection, Multi-Streaming, and Front Panel Jack-Retasking - Coaxial / Optical S/PDIF Out ports at back I/O - ASUS Noise Filtering
IEEE 1394	VIA VT6315N controller supports 2 x 1394a ports (1 at mid-board; 1 at back panel)
USB	12 xUSB 2.0 ports (6 ports at mid-board, 6 ports at back panel)
ASUS Unique Features	ASUS Power Saving Solutions: - 8+2 Phase Power Design - ASUS Anti-Surge Protection ASUS Green Design:

	<ul style="list-style-type: none"> - EPU <p>*ASUS EPU is supported by AM3/AM2+ CPU only</p> <ul style="list-style-type: none"> - ASUS AI Nap <p>Express Gate</p> <p>ASUS Quiet Thermal Solution:</p> <ul style="list-style-type: none"> - ASUS Fanless Design: Heat pipe solution - ASUS Fanless Design: Stack Cool 2 - ASUS Q-Fan 2 <p>ASUS EZ DIY:</p> <ul style="list-style-type: none"> - ASUS Q-Shield - ASUS Q-Connector - ASUS O.C. Profile - ASUS CrashFree BIOS 2 - ASUS EZ Flash 2 - Onboard Switch
Overclocking Features	<p>Intelligent overclocking tools</p> <ul style="list-style-type: none"> - AI Overclocking (Intelligent CPU Frequency Tuner) - TurboV - Turbo Key <p>Precision Tweaker 2</p> <ul style="list-style-type: none"> - vDIMM: 50 -step DRAM voltage control - vChipset (N.B.): 16-step voltage control - vCore: Adjustable CPU voltage at 0.0125V increment <p>SFS (Stepless Frequency Selection)</p> <ul style="list-style-type: none"> - FSB tuning from 200MHz up to 600MHz at 1MHz increment - PCI Express frequency tuning from 100MHz up to 150MHz at 1MHz increment <p>Overclocking Protection</p> <ul style="list-style-type: none"> - ASUS C.P.R.(CPU Parameter Recall)
Special Features	<p>100% All High-quality Conductive Polymer Capacitors!(VRM 5000hrs lifespan @ 105°C, 500,000hrs @65°C)</p> <p>ASUS MyLogo 2</p> <p>AMD OverDrive Support*</p> <p>* Advanced cooling system is required when advanced overclock functions of AMD OverDrive are enabled.</p>
Back Panel I/O Ports	<p>1 x PS/2 Keyboard</p> <p>1 x PS/2 Mouse</p> <p>1 x External SATA</p> <p>1 x IEEE 1394a</p> <p>1 x LAN(RJ45) port</p> <p>6 x USB 2.0/1.1</p> <p>8 -Channel Audio I/O</p> <p>1 x S/PDIF Out port (Coaxial)</p> <p>1 x S/PDIF Out port (Optical)</p>
Internal I/O Connectors	<p>3 x USB connectors support additional 6 USB ports</p> <p>1 x Floppy disk drive connector</p> <p>1 x IDE connector</p> <p>5 x SATA connectors</p> <p>1 x IEEE 1394a connector</p> <p>1 x CPU Fan connector</p> <p>2 x Chassis Fan connector</p> <p>1 x Power Fan connector</p> <p>1 x S/PDIF Out connector</p> <p>24-pin ATX Power connector</p> <p>Front panel audio connector</p> <p>COM connector</p> <p>Chassis Intrusion connector</p> <p>CD/AUX audio in</p> <p>System Panel (Q-Connector)</p> <p>8-pin ATX 12V Power connector</p> <p>Power on Switch</p> <p>Reset Switch</p>
BIOS	<p>8 Mb Flash ROM</p> <p>AMI BIOS, PnP, DMI 2.0, SM BIOS 2.5, ACPI 2.0a, ASUS EZ Flash 2, CrashFree BIOS 2</p>
Manageability	<p>WOL by PME,WOR by PME,WOR by Ring,Chasis Intrusion,PXE</p>
Accessories	<p>User's manual</p> <p>1 x UltraDMA 133/100/66 cable</p> <p>5 x SATA cable</p> <p>2 in 1 Q-connector (USB, System panel; Retail version only)</p>

2 x ASUS CrossFire bridge cables
1 x Multi-functional module (1-port IEEE 1394a + 2-port USB2.0)
*The floppy disk drive cable is purchased separately

Support Disc	Drivers
	ASUS PC Probe II
Support Disc	Express Gate
	ASUS AI Suite
	Anti-virus software (OEM version)
	ASUS Update
	AMD OverDrive Utility (AOD)
Form Factor	ATX Form Factor
	12 inch x 9.6 inch (30.5 cm x 24.4 cm)